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Search Results -

Terms	Documents
L37 and index	3

Database:

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US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins
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Search:

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Search History

DATE: Thursday, March 14, 2002   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L38	L37 and index	3	L38
L37	L36 and parcel	3	L37
L36	l27 and geographic same database	6	L36
DB=USPT; PLUR=YES; OP=OR			
L35	5410485.pn.	1	L35
L34	5508930.pn.	1	L34
L33	5519619.pn.	1	L33
L32	5729458.pn.	1	L32
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L31	6202026.uref.	3	L31

L30	6173232.uref.	2	L30
L29	6144318.uref.	3	L29
L28	6144318.uref.	3	L28
L27	5519619.uref.	19	L27

DB=USPT; PLUR=YES; OP=OR

L26	6144318.pn.	1	L26
L25	6173232.pn.	1	L25
L24	6202026.pn.	1	L24

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

L23	l4 and L18	1	L23
L22	l4 and L19	0	L22
L21	l4 and L20	0	L21
L20	5519619.pn.	3	L20
L19	5587911.pn.	3	L19
L18	6292745.pn.	2	L18

DB=USPT; PLUR=YES; OP=OR

L17	5519619.pn.	1	L17
L16	5537324.pn.	1	L16
L15	5587911.pn.	1	L15
L14	5724520.pn.	1	L14
L13	5815161.pn.	1	L13
L12	5832406.pn.	1	L12
L11	6175803.pn.	1	L11
L10	6184823.pn.	1	L10
L9	6185503.pn.	1	L9
L8	6128571.pn.	1	L8
L7	6144318.pn.	1	L7
L6	6173232.pn.	1	L6
L5	6202026.pn.	1	L5

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR

L4	L3 and (within or inside) same parcel	20	L4
L3	L1 and (organiz$ or access) same data same entities	119	L3
L2	L1 and organiz$ or access same data same entities	3528	L2
L1	geographic same database	1747	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 1 of 1 returned.

☐   1.   Document ID: US 6144318 A

L7: Entry 1 of 1   File: USPT   Nov 7, 2000

US-PAT-NO: 6144318
DOCUMENT-IDENTIFIER: US 6144318 A

TITLE: Navigation system

DATE-ISSUED: November 7, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayashi; Seiji	Anjo			JPX
Hayashida; Kihachi	Anjo			JPX
Nimura; Mitsuhiro	Anjo			JPX
Ito; Yasunobu	Anjo			JPX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Aisin AW Co., Ltd.				JPX	03

APPL-NO: 8/ 739709
DATE FILED: October 29, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	7-281779	October 30, 1995
JP	8-108146	April 26, 1996
JP	8-108149	April 26, 1996

INT-CL: [7] G08 G 1/123

US-CL-ISSUED: 340/995; 340/988, 340/990, 701/202, 701/209
US-CL-CURRENT: 340/995; 340/988, 340/990, 701/202, 701/209

FIELD-OF-SEARCH: 340/995, 340/990, 340/988, 345/123, 701/200, 701/201, 701/202, 701/205, 701/206, 701/209, 701/210, 701/211, 73/178R

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4737916	April 1988	Ogawa et al.	701/200
5293163	March 1994	Kakihara et al.	349/995
5371497	December 1994	Nimura et al.	340/995
5396431	March 1995	Shimizu et al.	701/213
5398188	March 1995	Maruyama	701/208
5434591	July 1995	Goto et al.	345/123
5471392	November 1995	Yamashita	701/200
5613055	March 1997	Shimoura et al.	395/173
5614898	March 1997	Kamiya et al.	340/995

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0579451	January 1994	EPX	
0624860	November 1994	EPX	
8805199	July 1988	WOX	
9416504	July 1994	WOX	

ART-UNIT: 276
PRIMARY-EXAMINER: Lee; Benjamin C.
ATTY-AGENT-FIRM: Lorusso & Loud

ABSTRACT:

A navigation system provides road guidance by displaying information relating to roads on a structure shape map, together with landmark information, in such a manner that only information around the present position is highlighted. The system retrieves road information in the direction of travel from the present position according to the vehicle speed, or road information within a predetermined angular or distance range in the direction of travel. Information relating to roads includes information indicating a one-way road, information indicating a road into which entry is prohibited, and information indicating a pedestrian crossing and a railroad crossing. These items of information are displayed by using marks, and the landmark information is displayed by using landmarks, thereby displaying information necessary for travel in a readily perceivable manner according to the travel conditions. When the vehicle enters a parking lot in the middle of the guidance for a route to a destination, the system searches for a route from the parking lot to the destination and outputs the found route by using a structure-shape map. The parking lot in this case is one within a predetermined walking distance from the destination. If the parking lot is in close proximity of the destination, further guidance is not necessary and the guidance is terminated.

36 Claims, 32 Drawing figures

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC |
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Terms	Documents
6144318.pn.	1

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L36: Entry 6 of 6   File: USPT   Apr 13, 1999

US-PAT-NO: 5893898
DOCUMENT-IDENTIFIER: US 5893898 A

TITLE: Navigation system having intersection routing using a road segment based database

DATE-ISSUED: April 13, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanimoto; Satoshi	Irvine	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Alpine Electronics, Inc.	Tokyo			JPX	03

APPL-NO: 8/ 692896   [PALM]
DATE FILED: July 30, 1996

INT-CL: [6] G01 C 21/00

US-CL-ISSUED: 701/201; 701/209, 701/211
US-CL-CURRENT: 701/201; 701/209, 701/211

FIELD-OF-SEARCH: 701/201, 701/208, 701/209, 701/210, 701/211, 340/995

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected] [Search ALL]

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4675676	June 1987	Takanabe et al.	340/995
4914605	April 1990	Loughmiller, Jr. et al.	364/518
4926336	May 1990	Yamada	364/444
5041983	August 1991	Nakahara et al.	364/449
5270937	December 1993	Link et al.	364/449
5307278	April 1994	Hermans et al.	364/450
5371678	December 1994	Nomura	364/444
5377113	December 1994	Shibazaki et al.	364/449
5410485	April 1995	Ichikawa	364/444
5508930	April 1996	Smith, Jr.	364/444
5519619	May 1996	Seda	364/444
5729458	March 1998	Poppen	364/464.1

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
1-173298	July 1989	JPX	
2-260000	October 1990	JPX	
6-25909	April 1994	JPX	

ART-UNIT: 364
PRIMARY-EXAMINER: Zanelli; Michael
ATTY-AGENT-FIRM: Brinks Hofer Gilson & Lione

ABSTRACT:

A route searching system for a vehicle navigation system for navigating on a road network, for use when the road network database is organized in terms of road segments and the destination is a road intersection. The destination road segment for a particular guided route is selected so that the destination road segment is accessible from the destination intersection. This is of benefit when the destination road segment is one permitting only one way travel, and thereby avoids selecting as the destination road segment a one way road permitting travel only into the destination intersection. This allows selection of an optimum route without dictating that the route pass through a one way segment leading only into the destination intersection. Another improvement is destination road segment filtering, whereby if a destination road segment is chosen such that travel on it is zero distance, then that destination road segment is deleted from the guided route, and instead the end of the previous road segment on the guided route is indicated as being the destination. This eliminates unnecessary instructions being given to the driver when he arrives at the destination intersection.

20 Claims, 15 Drawing figures